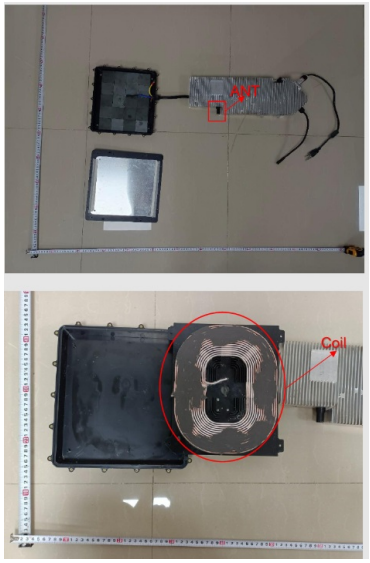
Fuyang HY 01 Wireless Charging Module Instruction Manual

Fuyang

Contents

Fuyang HY 01 Wireless Charging Module



Product Usage Instructions

Operation Declaration

1. Ensure equipment completeness and integrity upon unpacking.
2. Tear off protective film from coil and controller before use for heat dissipation.
3. Connect transmitting host to power socket.
4. Connect receiving host output to battery.
5. Place wireless charging receiver on charging area of transmitting terminal.
6. Start charging after correct placement with indicator light prompt.

Matters Need Attention

1. Avoid placing metal items on the charger.
2. Avoid high temperatures and direct sunlight exposure.
3. Regularly check for foreign matter or damage on the charger.
4. Ensure good ventilation and heat dissipation.
5. Avoid proximity to flammable or explosive products.

Frequently Asked Questions (FAQ)

Q: What should I do if the indicator light does not display the standby state?
A: Check the power connection of the transmitting host and ensure it is in standby mode.

HY 01 wireless charging module operating manual

Product Overview

Thank you for choosing our Wireless Charging Module, an Albemarle Companion product. The HY 01 is a medium-power wireless charging module that utilizes low-frequency magnetic resonance wireless charging technology to increase the charging distance and easily achieve wireless convenience; the maximum charging distance can reach 75 mm. During installation, please mount the transmitter coil of the wireless charging transmitter to the bottom of the charging ramp bracket of the snowplow. The aluminum casing of the transmitter controller should be parallel to the transmitter coil; the wireless charging receiver module should be installed at the

center of the bottom of the snowplow, positioned above the base of the snowplow. While wireless charging is in progress, the CAN signal will communicate with the snowplow via wired transmission. By default, the standby state of the transmitter part does not output capability detection.

Upon receiving a CAN communication charging command, the receiver will send a charging demand wake-up signal to the transmitter using 2.4G RF communication (used only for wireless transmission, no other smart communication). After the transmitter wakes up, the receiver will detect and complete the 2.4G communication pairing operation. The transmitter coil is driven to produce a varying magnetic field at a certain frequency, and the receiver coil, within a specific range above the transmitter coil, couples this varying magnetic field to generate induced electrical energy for charging the battery. During the operation, the transmitter and receiver coils only transfer power and do not transmit information; any information exchange between the transmitter and receiver relies on the 2.4G RF module.

HYO 1 models and specifications and parameters

Input voltage / input voltage	A C100-240V 47-63HZ
Input current / input current	8Amax @Full load
PF/ power factor	≥0.95
Rated power / Power rating	780W
Charging voltage / Charging voltage	42V ±0.2
Output current / output current	15A ±5%
Output type / Output type	Constant current-constant voltage (charging curve)
F ull load efficiency / Full-load efficiency	83%Typ @110V
Working frequency / Operating frequency	49kHz-89kHz
Standby power consumption / standby power consumption	≤2W
Wireless distance / Wireless distance	60-75mm
Offset distance / Offset distance	X:20mm;Y :30mm
Data transmission channel / Data transmission mode	2.4G ISM 2.4~2.483GHz
Communication interface / Communication interface	CAN (see Annex for the Agreement)
compatibility / Compatibility	Emission and reception can be randomly matched
Overcurrent protection / Overcurrent protection	18A (max)
FOD / foreign body detection	not have
TX protection temperature / Launch protection	80℃ down current, 85℃ off the charge

temperature	
RX protection temperature / Receiving protection temperature	75℃ down current, 80℃ off charging
Operating temperature / Operating temperature	-30-55℃ RH 95%
Storage temperature / Storage temperature	-30-55℃ RH 90%
Waterproofing grade / Waterproof grade	TX IP 65 RX IP 65
TX controller weight / Launch host weight	3.72KG
TX Coil weight / Launch coil weight	2.84KG
RX controller weight / Receiver weight	2.84KG
TX controller size / Launch host size	49.4*16.8*6.5cm
TX coil size / Launch coil size	29.2*28.5*5cm
RX coil size / Receiver size	37*26*5cm

Packaging content

- HY 01 Wireless charging module x 1
- Instructions for use, x 1
- Warranty card x 1

operation declaration

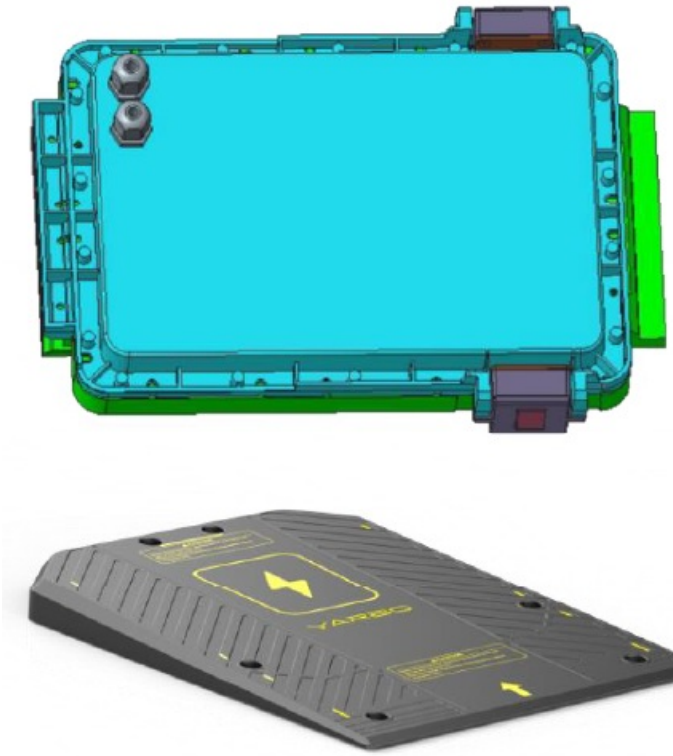
1. After unpacking the product, please check whether the equipment is complete, whether the accessories are complete, and whether the appearance is intact.
2. Before use, please tear off the coil and the controller protective film to ensure the good heat dissipation performance of the prototype.
3. Connect the power plug of the transmitting host to 220V or 110v, enter the power socket, and enter the transmitting host into the standby state, and the indicator light displays the standby state
   Machine state
4. Connect the positive and negative output line of the receiving host to the battery (due to the capacitor characteristics, there may be sparks when the battery is connected for the first time,
   A normal phenomenon), pay attention to the receiving host output cable: red battery positive electrode, that is, “+”, black battery negative Polar, i. e., “-“
5. Charging equipment: place the wireless charging receiver on the charging area of the transmitting terminal. Ensure that the contact surface of the device and the charger is at the required charging distance.
6. Start charging: After the device is placed correctly, the device clicks to start charging, and the device will automatically start charging. The transmitter end has an indicator light prompt when charging.

matters need attention

1. Before using the product, please read the product operating instructions first.
2. This product is only used for Yarbo car body, and should not be disassembled for other purposes.

3. This product is not applicable to children or disabled people.
4. This product can only be used under the wireless charging complete module of HY 01 model, and cannot be used in the wireless charging modules of other brands.
5. Make sure that the voltage of the charger and power adapter matches the voltage standard in your area.
6. Do not use the charger in wet or watery environments.
7. Avoid placing metal items on the charger, which may affect the charging efficiency or damage the device.
8. Don’t expose the charger to high temperatures or to direct sunlight.
9. Please regularly check the surface of the charger for foreign matter or damage to ensure safe use.
10. Be sure to ensure good ventilation and heat dissipation, and stay away from flammable and explosive products.

Schematic diagram of parts



debugging

- If the device cannot be charged, check the car for the message.
- Ensure that the vehicle body is aligned with the launch end.
- Try again, operate the car body and make sure it is in the center of the charging area.
- Check that the power adapter and power cord are properly connected.

order number	Exception code location	Fault code	Failure judgment	Solution / Solution
1	1	Bit0	Receive and output overpressure	Check whether the voltage of the charging battery meets the requirements, and whether the position of the transmitting and receiving coil is within the standard requirements
2	1	Bit1	Receive output over-stream	Check whether the voltage of the charging battery meets the requirements, and whether the position of the transmitting and receiving coil is within the standard requirements
3	1	Bit2	Receive the temperature	Check whether the ambient temperature of the equipment is too high, and whether the receiving heat dissipation channel is blocked
4	1	Bit3	Receive voltage mutations	Receive power off restart
5	1	Bit4	Reserved position	\
6	1	Bit5	Reserved position	\
7	1	Bit6	The emission power is abnormal	Check whether there are metal foreign bodies around the transmitting and receiving coil, and whether the transmitting and input power supply meets the product specifications
8	1	Bit7	continue to have	\
9	2	Bit0	Emission-resonant overcurrent (hardware)	Check whether there are metal foreign bodies around the product, whether the launch coil connection cable is loose or broken, and adjust the charging distance between the coils
10	2	Bit1	Emission-resonant overcurrent	Check whether there are metal foreign bodies around the product, whether the launch coil
			(software)	connection cable is loose or broken, and adjust the charging distance between the coils
11	2	Bit2	The emission of excessive temperature	Check whether the ambient temperature of the equipment is too high, and whether the emission heat dissipation channel is blocked
12	2	Bit3	A 2.4G-channel error	Check whether the installation environment has excessive WIFI and Bluetooth devices as communication interference
13	2	Bit4	The 2.4 The G module is abnormal	Power power the transmitter power supply
14	2	Bit5	The 2.4G communication timeout	Check whether the antenna is loose, the charging distance meets the requirements, and the installation position of the controller is wrapped with metal
15	2	Bit6	The emission input is abnormal	Check whether the input power supply voltage condition and the connection line contact are good
16	2	Bit7	continue to have	\

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body.

IC Warning statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).Operation is subject to the following two conditions:

1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.

IC RF exposure statement:

This equipment complies with IC Radiation exposure limit set forth for uncontrolled environments.
This equipment should be installed and operated with a minimum distance of 20cm between the product and your body.

warranty card

Dear users, thank you for buying the products of Zhonghui Chuang Wisdom Co., LTD. In order to better serve you, after buying the product, please read, fill in and properly keep this warranty card.

name of user		contacts	
customer address		contact number	
product name		product model	
date of purchase			
	date	Fault cause and handling	
tie-up		situation	
embellish			
remember			
record			

matters need attention

1. From the date of your purchase of the product, the company will install and use it according to the operation instructions for the product within one year, and after one year, the maintenance fee will be charged for maintenance workers.
2. For maintenance not caused by the quality of the company's products,such as improper use, improper storage, or unauthorized dismantling, the company shall charge additional fees for maintenance.

- Service telephone number: 0755-28993997
- Company website: **www.zonecharge.net**
- Service email address: **jiangyi@zonecharge.net**

The right of final interpretation and modification of the contents of this warranty card belongs to Zhonghui Chuangzhi (Shenzhen) Wireless Power Supply Technology Co., LTD

Documents / Resources

	**Fuyang HY 01 Wireless Charging Module** [pdf] Instruction Manual 2BFQW-HY01, 2BFQWHY01, HY 01 Wireless Charging Module, HY 01, Wireless Charging Module, Charging Module, Module

References

- [,]
- **User Manual**